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(54) PISTON RING MATERIAL

(57)Abstract:

PURPOSE: To improve wear and fatigue characteristics in a sulfuric-acid atmosphere by specifying respective contents of C, Si, Mn, Cr, Mo, W, Ni, Co, P, S, O, and Fe, CONSTITUTION: This piston ring material has a composition consisting of, by weight, 0.6-1.1% C, ≤2% Si, ≤2% Mn, 10-18% Cr. 0.5-4% Mo+1/2W, ≤2.5% Ni and/or ≤12% Co (where the total content of Ni and Co is regulated to ≤0.5%), ≤0.015% P, ≤0.005% S, ≤30ppm O, and the balance Fe. The above piston ring material has superior wear resistance and fatigue strength in a sulfuric-acid atmosphere.